

EMERGENCY RESPONSE REPORT

FOR

**BACHMAN SERVICES – OK CITY
2220 S. PROSPECT AVE
OKLAHOMA CITY, OKLAHOMA COUNTY, OKLAHOMA**

Prepared for

U.S. Environmental Protection Agency Region 6

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PROJECT SUMMARY

This final report describes the U.S. Environmental Protection Agency (EPA) response actions for Bachman Services – OK City emergency response located at 2220 S. Prospect Ave, Oklahoma City, Oklahoma County, Oklahoma. The incident site is located along I-35 at Latitude 35.443105° North and Longitude -97.485174° West. The detailed report follows this page, and all attachments are provided as separate portable document format (PDF) files.

On 24 July 2012 at approximately 1230 hours, a fire occurred at Bachman Services, Inc. (Bachman Services), an oil field hydraulic fracturing chemical producer and blending facility, due to a forklift malfunction. At approximately 1500 hours on 24 July 2012, EPA Region 6 Prevention and Response Branch (PRB) received a request from Oklahoma Department of Environmental Quality (ODEQ) to respond to the incident and assist with air monitoring. In response to ODEQ's request, the EPA Region 6 PRB mobilized an EPA team to assess the situation and assist with air monitoring capabilities in coordination with ODEQ. After the site was stabilized and clean up efforts were under way, the EPA team demobilized from the site on 27 July 2012.

Other regulatory agencies involved in the incident included Occupational Safety and Health Administration (OSHA), ODEQ, Oklahoma Department of Wildlife Conservation (ODWC), and the City of Oklahoma City Public Works Department (OKC-PW).

This final report was prepared under Contract No. EP-W-06-042 for EPA Region 6. The EPA OSC was Jhana Enders, and the START-3 Project Team Leader (PTL) was Heth Parnell.

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The EPA Task Monitor did not provide final approval of this report prior to the completion date of the work assignment. Therefore, Weston Solutions, Inc. has submitted this report absent the Task Monitor's approval.

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TABLE OF CONTENTS

EMERGENCY RESPONSE REPORT

PROJECT SUMMARY

TABLE OF CONTENTS

1. INTRODUCTION
2. BACKGROUND
3. ACTIONS TAKEN
4. LIST OF ATTACHMENTS

1. INTRODUCTION

On 24 July 2012 at approximately 1530 hours, the Oklahoma Department of Environmental Quality (ODEQ) requested assistance from the Environmental Protection Agency (EPA) Region 6 Prevention and Response Branch (PRB) to provide air monitoring support at a facility fire which occurred at Bachman Services, Inc. (Bachman Services) oil field hydraulic fracturing chemical manufacturing and blending facility, located at 2220 S. Prospect Ave, Oklahoma City, Oklahoma County, Oklahoma. At approximately 1500 hours on 24 July 2012, the EPA Region 6 PRB mobilized an EPA team to conduct a Tier 2 Response.

Geographic coordinates of the Bachman Services facility lie at Latitude 35.443105° North, Longitude -97.485174° West. Geographic coordinates of the Bachman Services – OK City incident location were obtained by START-3 using a Global Positioning System (GPS). A Site Location Map and a Site Area Map are included in Attachment A and Attachment B respectively.

2. BACKGROUND

Oklahoma Department of Environmental Quality (ODEQ) was informed on 24 July 2012 by Bachman Services, Inc., the RP, of a fire that has occurred at their facility due to a forklift malfunction. The City of Oklahoma City Fire Department (OKC-FD) responded with firefighting and Hazmat trucks and equipment. On 24 July 2012, ODEQ contacted the EPA to report the facility fire and requested air monitoring assistance at 2220 S. Prospect Ave, Oklahoma City, Oklahoma County, Oklahoma. Site Location, Site Area, and Site Layout Maps are provided as Attachments A, B, and C, respectively.

In addition to EPA, other responding regulatory agencies included the City of Oklahoma City Public Works Department (OKC-PW), Oklahoma Department of Environmental Quality (ODEQ), Oklahoma Department of Wildlife Conservation (ODWC), and the Occupational Safety and Health Administration (OSHA).

3. ACTIONS TAKEN

On 24 July 2012, the EPA team mobilized to Bachman Services, Inc. (Bachman Services), the RP, located at 2220 S. Prospect Ave., Oklahoma City, Oklahoma County, Oklahoma to perform a Tier 2 Response. At 1858 hours the EPA team arrived at the incident location and began assessing the site. Response activities included collecting facts regarding the incident, documenting efforts utilized to contain contaminated fire water, and perform perimeter air monitoring utilizing personal air monitoring equipment. RP representative Ms. Carla Hayes stated the incident started at approximately 1245 hours due to a forklift malfunction resulting in a fire, which spread throughout the building. The fire was extinguished at approximately 1530 hours by City of Oklahoma City Fire Department (OKC-FD). Two (2) clean up contractors were identified by the RP: Environmental Cleanup, Inc. (ECI) who remediated contaminated fire water, and Enviro-Clean who remediated RP's facility. OKC-FD and RP initiated an evacuation of the immediate area and surrounding businesses during the fire; no residential areas were evacuated. The EPA team conducted air monitoring at the RP's facility and along the spill pathway, nothing above background levels was observed, however the fire was extinguished prior to arrival. City of Oklahoma City Public Works Department (OKC-PW) constructed two (2) earthen dams (Coordinates 35.458680° N, -97.487430° W, and 35.455579° N, -97.487899° W) and placed three (3) booms in the storm water channel at the confluence of the North Canadian (Oklahoma) River in an effort to mitigate off site impacts.

On 25 July 2012 at approximately 1325 hours, the EPA team attended a meeting in which members from the RP, Occupational Safety and Health Administration (OSHA), Oklahoma Department of Environmental Quality (ODEQ), OKC-PW, OKC-FD/Hazmat, ECI, and Enviro-Clean were all in attendance. It was agreed upon by all parties that the RP mobilize frac tanks to the site and begin removal of contaminated fire water from the drainage canal. RP contractors began removing contaminated fire water from the drainage canal and storing it on-site in frac tanks at an approximate rate of two (2) full frac tanks per hour. It is estimated that three (3) million gallons firewater was present in the drainage canal, and an estimated 150 frac tanks will be required to store the contaminated water.

During the period of 26 and 27 July 2012, meetings were held involving the EPA team, RP, ODEQ, OKC-PW, OKC-FD/Hazmat, and ECI; it was agreed upon by all parties that samples need to be taken of contaminated fire water runoff and in the North Canadian (Oklahoma) River in case of a release due to a rain event. RP activities included hiring of a structural engineer to inspect the facility to enable contractors to enter the building to begin remediation activities, removing contaminated water from drainage canal, taking samples of contaminated water contained in frac tanks, and taking samples of North Canadian (Oklahoma) River up-stream of incident location for analysis. Oklahoma Department of Wildlife Conservation (ODWC) was on-site due to a fish kill involving approximately 5200 fish and several turtles. On 27 July 2012, the EPA team departed from the site.

Between 01 and 20 August 2012, RP contractors performed the following activities - fresh water flushing of the spill pathway; collecting water and soil samples, demolished facility involved in the fire, removed contaminated water and excavated soil from drainage canal, removed earthen dams, and disposed of contaminated water and soil at Southwest or Oklahoma City Landfill, located in Oklahoma City, Oklahoma (Attachment H).

This final report was prepared as part of the requirements of TDD No. TO-0001-12-07-08 and serves as documentation of work completed to date.

4. LIST OF ATTACHMENTS

- A. Site Location Map
- B. Site Area Map
- C. Site Layout Map
- D. Digital Photographs
- E. NRC Report No. 1018873
- F. POLREPs
- G. START-3 Site Logbook
- H. Waste Manifests
- I. TDD No. TO-0001-12-07-08